JOURNAL OF GERONTOLOGY

VOLUME CONTENTS

Vol. 27 • No. 1 - 4
1972

•

EDITORS, JOURNAL OF GERONTOLOGY

JAMES E. BIRREN, PhD, *Editor-in-Chief*
HOWARD J. CURTIS, PhD, *Associate Editor*
RALPH GOLDMAN, MD, *Associate Editor*
JAMES L. FOZARD, PhD, *Associate Editor*
M. POWELL LAWTON, PhD, *Associate Editor*
RICHARD A. KALISH, PhD, *Book Editor*
HERMAN T. BLUMENTHAL, MD, PhD, *Book Editor*
MARJORIE ADLER, MA, *Director of Publications*

PUBLICATIONS COMMITTEE OF THE GERONTOLOGICAL SOCIETY

NATHAN W. SHOCK, PhD, *Chairman*
HAROLD BRODY, MD, PhD
LESLIE S. LIBOW, MD
JUANITA M. KREPS, PhD
ELIAS S. COHEN, MPA
FRED EISELE (*student member*)

•

Published Quarterly by
GERONTOLOGICAL SOCIETY

Copyright 1972 by Gerontological Society

JOURNAL OF GERONTOLOGY

Contents of Volume 27

VOLUME 27 JANUARY, 1972 NUMBER 1

PAGE

Section A: Biological and Medical Sciences

Alterations in Deoxyribonucleic Acid-Bound Amino Acids with Age and Sex *Josephine S. Salser and M. Earl Balis* 1

Age Changes in the Lipid Composition of Whole Homogenates and Isolated Myelin Fractions of Mouse Brain *Grace Y. Sun and Thaddeus Samorajski* 10

Cytoplasmic Granules in Buccal Cells: An Age-Related Phenomenon? *Robert W. Hillman, Howard S. Smith, and Joel S. Levine* 18

The Unlikelihood that Malonaldehyde Arising from *in Vivo* Lipid Degradation Contributes to Collagen Crosslinking *Michael Schneir and Loraine Buch* 22

Age and Fate of Parathyroid Hormone *Takuo Fujita, Kazutoshi Okano, Hajime Orimo, Masahiro Ohata, and Masaki Yoshikawa* 25

The Pattern of Urinary Glycosaminoglycans Excretion in Relation to Age in Man. III. Anticoagulant Activity *Artur Ber and David Allalouf* 28

Relationship Between Age, Chronic Exercise, and Connective Tissue of the Heart *Robert J. Tomanek, Cheryl A. Taunton, and Karen S. Liskop* 33

Some Characteristics of Nocturnal Penile Tumescence in Elderly Males *Ismet Karacan, Carolyn J. Hursch, and Robert L. Williams* 39

Section B: Psychology and the Social Sciences

Objective Versus Perceived Age Differences in Personality: How Do Adolescents, Adults, and Older People View Themselves and Each Other? *Inge M. Ahammer and Paul B. Baltes* 46

New Directions for Research on Aging and Retention *Larry R. Goulet* 52

Section C: Social Gerontology

Personality Traits as Predictors of Institutional Adaption Among the Aged *Barbara F. Turner, Sheldon S. Tobin, and Morton A. Lieberman* 61

Prediction of Improvement in Mentally Impaired Aged: Personality Ratings by Social Workers *Morton M. Kleban and Elaine M. Brody* 69

Constraint and Life Satisfaction *Kenneth J. Smith and Aaron Lipman* 77

Physical and Mental Impairment-of-Function Evaluation in the Aged: The PAMIE Scale *Lee Gurel, Margaret W. Linn, and Bernard S. Linn* 83

Another Look at Self-Rated Health Among the Elderly *Thomas Tissue* 91

Age and Opinions on a Government Program of Medical Aid *E. M. Schreiber and Lorna R. Marsden* 95

The Aging Narcotic Addict: An Increasing Problem for the Next Decades *William C. Capel, Bernard M. Goldsmith, Kathleen J. Waddell, and Gordon T. Stewart* 102

Attitudes of the Aged Toward the Young: A Multivariate Study in Intergenerational Perception *Arthur G. Cryns and Abraham Monk* 107

The Retirement of Academic Scientists *Alan R. Rowe* 113

Aging Regions of the United States *Albert Chevan and John F. O'Rourke* 119

Book Reviews 127

Current Publications in Gerontology and Geriatrics *Nathan W. Shock* 131

VOLUME 27 APRIL, 1972 NUMBER 2

PAGE

Section A: Biological and Medical Sciences

Minimum Number of Cell Doublings in an Epithelial Cell Population During the Life-Span of the Mouse *Ivan L. Cameron* 157

Cell Proliferation and Renewal in Aging Mice *Ivan L. Cameron* 162

Brain-Reactive Antibodies in Mouse Serum as a Function of Age *Kalidas Nandy* 173

Differences in Properties of Newly Formed Collagen During Aging and Parabiosis ..... *Vladimira Hlavackova Jolma and Zdenek Hruza* 178
The Effect of Fluoride on Some Physical and Chemical Characteristics of the Bones of Aging Mice ..... *G. V. G. Krishna Rao, Kathleen Ts'ao, and Harold H. Draper* 183
Effect of Age on RNA Synthesis by Nuclei and Soluble RNA Polymerases from Liver and Muscle of C57BL/6J Mice ..... *Venera J. Britton, Frederick G. Sherman, and James R. Florini* 188
Age-Related Spontaneous Uterine Lesions in Mice ..... *George I. Malinin and Ivan M. Malinin* 193
Effects of Age and Radiation Exposure on Chromosomes in a Marshall Island Population ..... *Charles F. Demoise and Robert A. Conard* 197
Age and Physique in Healthy White Veterans at Boston ..... *Albert Damon, Carl C. Seltzer, Howard W. Stoudt, and Benjamin Bell* 202
The Effect of Carotid Massage in Older Men ..... *Joseph Smiddy, H. Daniel Lewis, Jr., and Marvin Dunn* 209
Hyperbaric Oxygen Treatment of Organic Mental Syndrome in Aged Persons ..... *Alvin I. Goldfarb, Neil J. Hochstadt, Julius H. Jacobson, II, and Edwin A. Weinstein* 212
Joint Stiffness: Effects of Exercise on Young and Old Men ..... *Elizabeth A. Chapman, Herbert A. deVries, and Robert Swezey* 218

Section B: Psychology and the Social Sciences

Ontogenetic and Generational Components of Structural and Quantitative Change in Adult Behavior ..... *John R. Nesselroade, K. Warner Schaie, and Paul B. Baltes* 222
Age, Sex, and Task Difficulty as Predictors of Social Conformity ..... *Ronald L. Klein* 229
Intellect, Mental Illness, and Survival in the Aged: A Longitudinal Investigation ..... *Elizabeth H. Hall, R. Douglas Savage, Neil Bolton, Diana M. Pidwell, and Gary Blessed* 237
An Exploratory Study of Reminiscence ..... *Robert J. Havighurst and Richard Glasser* 245
Forgetting in Older Persons ..... *Rose E. Boyarsky and Carl Eisdorfer* 254
Age Effects in Simple Prediction Behavior ..... *Anthony Sanford, Stephen Griew, and Leslie O'Donnell* 259
Acoustic Aspects of the Aging Voice ..... *William J. Ryan* 265

Section C: Social Gerontology

Old Age and Response to Agreement-Disagreement ..... *William Griffitt, Janet Nelson, and Glenn Littlepage* 269
Needs of Older Americans Assessed by Delphi Procedures ..... *Lorraine H. Clark and Samuel Cochran* 275
Book Reviews 279
Current Publications in Gerontology and Geriatrics ..... *Nathan W. Shock* 292

VOLUME 27 JULY, 1972 NUMBER 3

PAGE

Section A: Biological and Medical Sciences

Electron Microscopy of Aging Skeletal Cells. I. Centrioles and Solitary Cilia ..... *Edgar A. Tonna and Nina M. Lampen* 316
Effect of Age on Rate of Protein Synthesis in Isolated Perfused Mouse Hearts ..... *Stephen Geary and James R. Florini* 325
Acid Phosphatase Profile During the Life-Span of the Mosquito ..... *Betty J. Mills and Calvin A. Lang* 333
Basal Metabolic Rate in Elderly Subjects ..... *Louise M. Dalderup, Evert F. Drion, and W. Berend van Haard* 338
Exercise and Longevity: Evidence for a Threshold Age ..... *Dee W. Edington, Arthur C. Cosmas, and William B. McCafferty* 341
Comparison of Exercise Responses in Old and Young Men. I. The Cardiac Effort/Total Body Effort Relationship ..... *Herbert A. deVries and Gene M. Adams* 344
Comparison of Exercise Responses in Old and Young Men. II. Ventilatory Mechanics ..... *Herbert A. deVries and Gene M. Adams* 349

Section B: Psychology and the Social Sciences

Learning by Mature-Young and Aged Wistar Albino Rats as a Function of Test Complexity ..... *Charles L. Goodrick* 353
The Effects of Cage Environment Upon Avoidance Responding of Aged Rats ..... *Barbara A. Doty* 358
Learning and Memory in Relation to Age ..... *Phyllis A. Moenster* 361
Familiarity and Complexity in Perceptual Recognition ..... *Sandra Cooper Howell* 364
Age and Stimulus Meaningfulness in Paired-Associate Learning ..... *Ilene Wittels* 372

Section C: Social Gerontology

Some Factors and Their Association with Post-Relocation Mortality Among Institutionalized Aged Persons ..... *Elliot Markus, Margaret Blenkner, Martin Bloom, and Thomas Downs* 376

The Availability of Personal Transportation, Residential Location, and Life Satisfaction Among the Aged ..... *Stephen J. Cutler* 383

Resocialization of Regressed Elderly Residents: A Behavioral Management Approach ..... *Donald J. Mueller and Lucille Atlas* 390

The Younger Nursing Home Patient ..... *Shayna R. Greenwald and Margaret W. Linn* 393

A Bibliography of Doctoral Dissertations on Aging from American Institutions of Higher Learning 1969-1971 ..... *Julie L. Moore and James E. Birren* 399

Book Reviews 403

Current Publications in Gerontology and Geriatrics ..... *Nathan W. Shock* 410

VOLUME 27 OCTOBER, 1972 NUMBER 4

PAGE

Section A: Biological and Medical Sciences

Recognition Relations Between Macromolecules in Growth, Disease, Aging, and the Homograft Reaction ..... *Philip R. J. Burch and Douglas Jackson* 435

Aging, Total Body Potassium, Fat-Free Mass, and Cell Mass in Males and Females Between Ages 18 and 85 Years ..... *Ladislav P. Novak* 438

Red Blood Cell and Plasma Phospholipids in Aged Humans, ... *Martin Gold and Henry Altschuler* 444

Physiological Effects of Training upon Institutionalized Geriatric Men ..... *Bryant A. Stamford* 451

On the Relationships Among Sex, Age, Response Mode, Cardiac Cycle Phase, Breathing Cycle Phase, and Simple Reaction Time ..... *Bernard T. Engel, Phillip R. Thorne, and Reginald E. Quilter* 456

Section B: Psychology and the Social Sciences

Interrelationships Among Piagetian Tasks and Traditional Measures of Cognitive Abilities in Mature and Aged Adults ..... *Patricia A. Storck, William R. Looft, and Frank H. Hooper* 461

Age, Sex, and Educatonal Differences in Syllogistic Reasoning ..... *Milton F. Nehrke* 466

The Nature of the Interaction Between Pacing and the Age Decrement in Learning ..... *Marcel Kinsbourne and Judith L. Berryhill* 471

Failure of Ingestion of RNA to Enhance Human Learning ..... *Augusto Britton, Leon L. Bernstein, Anthony J. Brunse, Matthew W. Buttiglieri, Arthur Cherkin, John H. McCormack, and Donald J. Lewis* 478

Recognition Across Visual Fields and Age ..... *Martha Storandt* 482

Recognition Tests of Dichotic Listening and the Age Variable ..... *David Schonfield, Virginia Trueman, and Donald Kline* 487

The Effects of Practice on Short-Term Memory of Young and Old Subjects ..... *Harvey A. Taub and Margaret K. Long* 494

Operant Behavior in the Memory-Disordered ..... *Mary Ankus and Bruce Quarrington* 500

Section C: Social Gerontology

An Exploration of the Activity Theory of Aging: Activity Types and Life Satisfaction Among In-Movers to a Retirement Community ..... *Bruce W. Lemon, Vern Bengtson, and James A. Peterson* 511

Age and Institutional Support: Perceptions of Older Mexican Americans ..... *Ben M. Crouch* 524

Characteristics of Deceased Dropouts in Longitudinal Research ..... *Edward A. Powers and Gordon L. Bultena* 530

Pre-Medicare Beliefs About the Generations Regarding Medicine and Health ..... *Paul Cameron* 536

Book Reviews 540

Current Publications in Gerontology and Geriatrics ..... *Nathan W. Shock* 544

Author Index to Current Publications in Gerontology and Geriatrics ..... *Nathan W. Shock* 571

Index to Volume 27 586